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Standards

Irish Standard
I.S. EN 61169-54:2016

Radio-frequency connectors - Part 54:
Sectional specification for coaxial connectors
with 10 mm inner diameter of outer
conductor, nominal characteristic impedance
50 Ω , series 4,3-10

I.S. EN 61169-54:2016

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National Foreword

I.S. EN 61169-54:2016 is the adopted Irish version of the European Document EN 61169-54:2016, Radio-frequency connectors - Part 54: Sectional specification for coaxial connectors with 10 mm inner diameter of outer conductor, nominal characteristic impedance 50 Ω , series 4,3-10

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EUROPEAN STANDARD

EN 61169-54

NORME EUROPÉENNE

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English Version

Radio-frequency connectors -
Part 54: Sectional specification for coaxial connectors
with 10 mm inner diameter of outer conductor,
nominal characteristic impedance 50 Ω , series 4,3-10
(IEC 61169-54:2016)

Connecteurs pour fréquences radioélectriques -
Partie 54: Spécification intermédiaire relative aux
connecteurs coaxiaux avec diamètre intérieur du
conducteur extérieur de 10 mm, impédance caractéristique
nominale de 50 Ω , série 4,3-10
(IEC 61169-54:2016)

Hochfrequenz-Steckverbinder -
Teil 54: Rahmenspezifikation für koaxiale
Hochfrequenzsteckverbinder mit 10 mm Innendurchmesser
des Außenleiters, Wellenwiderstand 50 Ω , Typ 4,3-10
(IEC 61169-54:2016)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

EN 61169-54:2016

European foreword

The text of document 46F/348/FDIS, future edition 1 of IEC 61169-54, prepared by SC 46F "RF and microwave passive components", of IEC/TC 46 "Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61169-54:2016.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-07-11
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-10-11

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61169-1	2013	Radio-frequency connectors - Part 1: Generic specification - General requirements and measuring methods	EN 61169-1	2013
IEC 62037-1	2012	Passive RF and microwave devices, intermodulation level measurement - Part 1: General requirements and measuring methods	EN 62037-1	2012

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INTERNATIONAL STANDARD

NORME INTERNATIONALE



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INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Radio-frequency connectors –
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO-FREQUENCY CONNECTORS –

**Part 54: Sectional specification for coaxial connectors
with 10 mm inner diameter of outer conductor,
nominal characteristic impedance 50 Ω, series 4,3-10**

FOREWORD

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The text of this standard is based on the following documents:

FDIS	Report on voting
46F/348/FDIS	46F/354/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 61169 series, under the general title: *Radio-frequency connectors*, can be found on the IEC website.

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RADIO-FREQUENCY CONNECTORS –

Part 54: Sectional specification for coaxial connectors with 10 mm inner diameter of outer conductor, nominal characteristic impedance 50 Ω , series 4,3-10

1 Scope

This part of IEC 61169, which is a sectional specification (SS), provides information and rules for the preparation of detail specifications (DS) for coaxial connectors with 10 mm inner diameter of outer conductor, characteristic impedance 50 Ω , series 4,3-10 with screw type, hand screw type or quick-lock type coupling, for an upper operating frequency limit of 6 GHz, for use in wireless telecommunication and wireless network applications in conjunction with appropriate transmission line types for these applications.

It also describes mating face dimensions for general purpose connectors, gauging information and tests selected from IEC 61169-1, applicable to all detail specifications relating to 4,3-10 series connectors.

This specification indicates the recommended performance characteristics to be considered when writing a detail specification and it covers test schedules and inspection requirements for assessment levels M and H.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 61169-1:2013, *Radio-frequency connectors – Part 1: Generic specification – General requirements and measuring methods*

IEC 62037-1:2012, *Passive RF and microwave devices, intermodulation level measurement – Part 1: General requirements and measuring methods*

3 Mating face and gauge information

3.1 Dimensions – General connectors – Grade 2

3.1.1 Connector with pin-centre contact (see Figure 1)

Metric dimensions are original dimensions. All un-dimensioned pictorial configurations are for reference purpose only.

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